

FORISOV, P. and LAGUTIN, M.

Vozdushnye soobshcheniia. [Air communications]. (His Elektrifikatsiia Ural'skoi oblasti. In Generalnyi plan elektrifikatsii SSSR. Moskva, 1932, v. 8, p. 272)

DLC: TK85.A45

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

FORISOV P. and LAGUTIN, M.

Elektrifikatsiia Bashkiri. [Electrification of Bashkiria]. (In General'nyi plan elektrifikatsii SSSR. Moskva, 1932, v. 8.).

Means of transportation (p. 495).

DLC: TK85.A45

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

BORISOV, P. and LAGUTIN, M.

Vodnye puti. [The Waterways]. (His Elektrifikatsiia Bashkiri in General'nyi plan elektrifikatsii SSSR. Moskva, 1932, v. 8, p. 496). DLC: TK85.A45

SO: Soviet Transportation and Communication, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

BORISOV, P. and LAGUTIN, M.

Guzhenoi transport. [Cart transport]. (His Elektrifikatsiia Bashkirii in General'nyi plan elektrifikatsii SSSR. Moskva, 1932, v. 8, p. 496).

DLC: TK85.A45

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

BONISOV, P. A.

Electrolytes

Flexible exhaust collectors for electrolytic baths, *Ryb. Khoz.* 29, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

Borisov, P.

AID P - 4408

Subject : USSR/Radio

Card 1/1 Pub. 89 - 6/18

Author : Borisov, P.

Title : Performance of wind-driven motors in the North

Periodical : Radio, 4, 21-22, Ap 1956

Abstract : The efficiency of wind motor generator sets in the North, where strong winds blow in the fall and winter seasons is discussed and their advantages as compared to diesel plants are enumerated. Some recommendations to prevent dangerous stresses occurring during changes in the wind velocity and strength are made. These sets are used for the operation of radio stations and other needs of the regions.

Institution : None

Submitted : No date

BORISOV, P. [Borysov, P.]

Major chemical industrial complexes of the Ukraine. Nauka i
zhyttia 12 no.3:30-31 Mr '63. (MIRA 16:11)

1. Zamestitel' zaveduyushchego otdelom khimicheskoy promyshlen-
nosti i neftepererabotki Tsentral'nogo komiteta Kommunistiches-
koy partii Ukrainy.

Borisov, P. A. KYANITE OF THE KOLA PENINSULA AND
THE PROBLEMS OF HIGHLY REFRACTORY MATERIALS.
Razvedka Nedr., 1937 [2] 1-5.—The analysis and micro-
scopic investigation of kyanite schist found in the central
part of the Kola Peninsula showed its suitability for the
manufacture of highly refractory products.

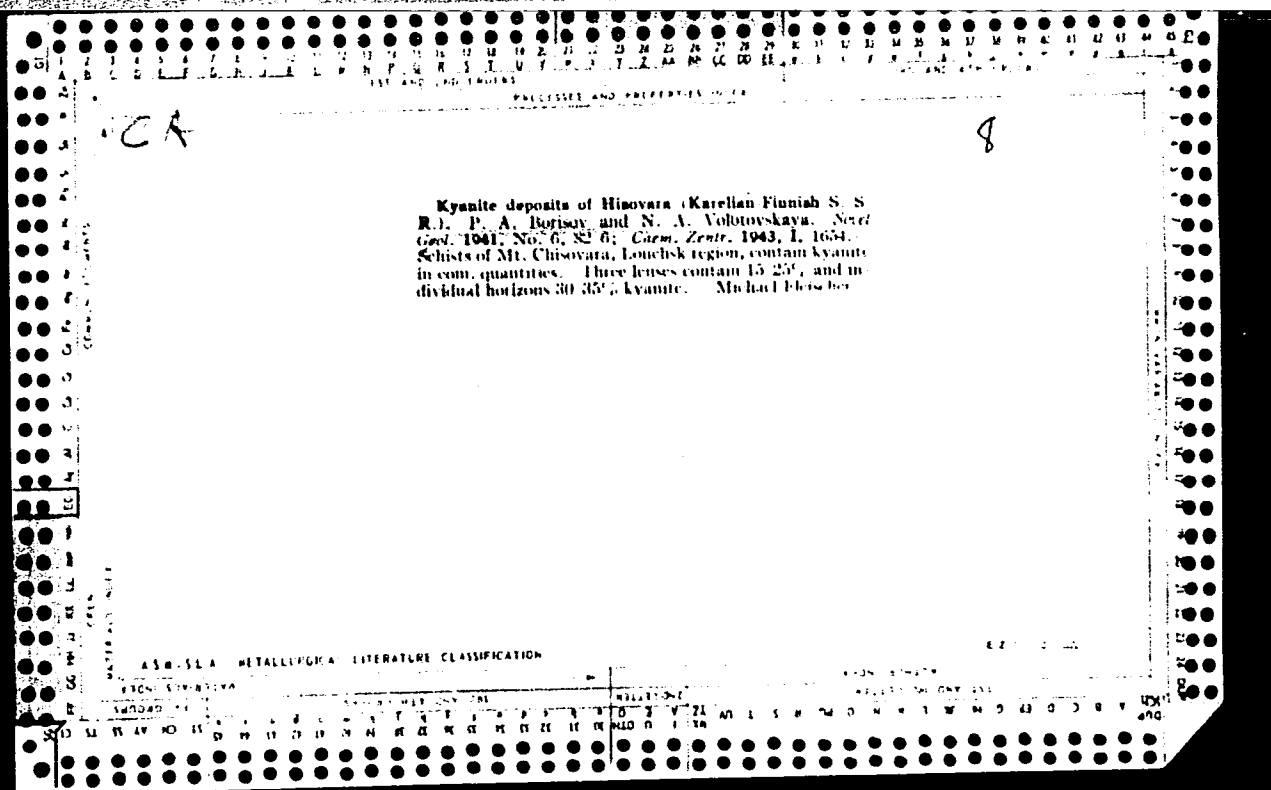
BORISOV, P. A.
A. C. S.

Geology

Cavian kyanite. P. A. BORISOV. *Prisnod. Sily Kol'shago Poluostrova*, 1968, No. 1, pp. 153-81; *Khim. Referat. Zhur.*, 4 [1] 41 (1941); *Chem. Abs.*, 37, 1680 (1943).—The kyanite-containing rocks of the Cavian suite in the central part of the Kola Peninsula are known over a distance of 150 km. There are several sharply distinct varieties of kyanite: light-blue, black, bluish gray prismatic, and paramorphic after andalusite. The kyanite-containing horizon represented by quartz-kyanite shales with 40 to 50% black and white kyanite is of industrial importance. The total estimated reserves of kyanite contained in comparatively rich formations are very high. See "Deposits . . ." *Ceram. Abs.*, 21 [11] 244 (1942).

BORISOV, P. A.

AUTHOR INDEX	MATERIALS INDEX
2	A.S.S.R. METALLURGICAL LITERATURE CLASSIFICATION
Borisov, P. A. DEPOSITS OF MATERIALS HIGH IN CLAY AND THEIR COMPARATIVE EVALUATION. <i>Sbornik Leningrad. Geol. Upravleniya</i>, 1940 [5] 14-34.—The physico-chemical and technical properties of sillimanite minerals and their deposits in U.S.S.R., and abroad are described. The deposits of Kola Peninsula (Loverzero and Kely Lakes) are described in the greatest of detail.	



1. BORISOV, P. A., Prof.; MITROFANOVA, E. T.

2. USSR (600)

4. Karelia - Mines and Mineral Resources

7. Mineral resources of the Karelo-Finnish S.S.R. for the production of cementing materials. Izv. Kar-Fin. fil. AN SSSR No. 1, 1951.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

BORISOV, P.A., professor.

Soviet touchstone. Priroda 44 no.11:92-94 N '55. (MLRA 9:1)

1. Karelo-Finskiy filial Akademii nauk SSSR.
(Basanites)

BORISOV, Petr Alekseyevich; PANKRASHOV, A., redaktor; POD"YEL'SKAYA, K.,
tekhnicheskiiy redaktor

[Karelian schungite] Karel'skie shungity. Petrozavodsk, Gos.
izd-vo Karelo-Finskoi SSR, 1956. 91 p. (MLRA 10:2)
(Karelia--Schungite)

BORISOV, P.A.

Karelian schungite is a valuable mineral. Razved.i okh.nedr.
23 no.3:12-19 Mr '57. (MLRA 10:5)

1. Karel'skiy filial AN SSSR.
(Karelia--Schungite)

SUBJECT: USSR/Chronicle

11-4-23/23

AUTHOR: Borisov, P.A.

TITLE: Work of the Scientific Session of the Karelian Branch of the USSR Academy of Sciences, 1956." (Nauchnaya sessiya karel'skogo filiala AN SSSR 1956 g.)

PERIODICAL: "Izvestiya Akademii Nauk SSSR" Seriya Geologicheskaya, 1957, #4, pp 135-136, (USSR)

ABSTRACT: A scientific session was held in Petrozavodsk on April 4-7, 1956, commemorating the 10th anniversary of the founding of the Karelian branch of the Academy of Sciences of the USSR. Papers were read on the following problems:

1. Present situation and future developments of the Carboniferous rocks of southern Karelia, by Prof. P.A. Borisov.
2. Geology and lithology of the upper Karelian carboniferous rocks of southern Karelia, by Candidate of Geological-Mineralogical Sciences B.A. Sokolov.
3. Geology of the Pokrov-Chebino-Medvezhegorsk area, by O.A. Ryykonen.

Card 1/2

11-4-23/23

TITLE: "Work of the Scientific Session of the Karelian Branch of the USSR Academy of Sciences, 1956." (Nauchnaya sessiya karel'skogo filiala AN SSSR 1956 g.)

4. Geologic formation of the Eletsozer titanium deposits, by A.I. Bogachev.
5. Palingenesis at the forming of granites, by K.O. Krats
6. Stratification of the Quaternary Period in Karelia, by G.S. Biske.

ASSOCIATION: -

PRESENTED BY:

SUBMITTED: November 27, 1956

AVAILABLE: At the Library of Congress.

Card 2/2

BORISOV, P.A.; KRATS, K.O.

Trends and results of investigations of the Department of Geology
of the Karelian Branch of the Academy of Sciences of the U.S.S.R.
Izv. Kar. i Kol' fil. AN SSSR no. 1:35-42 '57. (MIRA 11:7)

1. Otdel geologii Karel'skogo filiala AN SSSR,
(Karelia--Geological research)

SHURKIN, K.A.; BORISOV, P.A., prof., otvetstvennyy red.; SEMENOVA, Ye.
red.izd-va; PEVZNER, R.S., tekhn.red.

[Geological account of the Pitkyaranta deposit of ceramic pegmatites;
northeastern Ladoga region] Geologicheskii ocherk Pitkiarantskogo
polia keramicheskikh pegmatitov; severo-vostochnoe Priladozh'e.
Moskva, Izd-vo Akad. nauk SSSR, 1958. 87 p. (MIRA 11:5)
(Ladoga region--Pegmatites)

BORISOV, P.A.

Keyvy natural mica flake reserves. Izv. Kar. i Kol'. fil. AN SSSR
no. 3:3-8 '59. (MIRA 13:4)

1. Otdel petrografii i mineralogii Karel'skogo filiala AN SSSR.
(Keyvy Upland--Mica)

BORISOV, P.A.; VASIL'YEVSKIY, A.P.

Geological and economic prerequisites for creating in the Karelian
A.S.S.R. a strong stone industry. Trudy Kar. fil. AN SSSR no.11:3-27
'59. (MIRA 13:2)

(Karelia--Stone)

BORISOV, P.A.; RYZHENKOV, I.I.

Determining the economic effectiveness of secondary oil recovery
methods. Trudy Inst. geol. i razrab. gor. iskop. 2:194-199 '60.
(MIRA 14:5)

(Secondary recovery of oil)

SOKOLOV, Vladimir Alekseyevich; BUTIN, Remir Vasil'yevich; BORISOV, P.A.,
nauchnyy red.; SHEKHTER, D.I., red.; SHEVCHENKO, L.V., tekhn.
red.

[Geological field trip to Yuzhnyy Oleniy Island and Volkostrov]
Geologicheskaya ekskursiya na Yuzhnyi Olenii ostrov i Volkostrov.
Petrozavodsk, Gos. izd-vo Karel'skoi ASSR, 1961. 57 p.
(MIRA 14:8)

(Karelia--Geology--Field work)

BISKE, Galina Sergeyevna; KRATS, Kauko Ottovich; BORISOV, P.A., nauchnyy red.; SHEKHTER, D.I., red.; SHEVCHENKO, L.V., tekhn. red.

[Geology field trips in the vicinity of Petrozavodsk] Geologicheskie ekskursii v okrestnosti Petrozavodsk. Petrozavodsk, Gos. izd-vo Katel'skoi ASSR, 1961. 86 p. (MIRA 14:8)
(Petrozavodsk region—Geology—Field work)

BORISOV, P.A., prof., doktor geologo-mineralogicheskikh nauk

New sources of feldspars and their substitutes in Karelia.
Stek.i ker. 19 no.5:26-27 My '62. (MIRA 15:5)
(Karelia--Feldspar)

SOKOLOV, Vladimir Alekseyevich; BORISOV, P.A., doktor geol.-miner.
nauk, nauchnyy red.; KULIKOV, M.V., red.izd-va;
SOROKINA, V.A., tekhn. red.

[Geology and lithology of carbonate rocks in the Middle
Proterozoic in Karelia] Geologiya i litologiya karbonatnykh
porod srednego proterozoya Karelii. Moskva, Izd-vo Akad.
nauk SSSR, 1963. 183 p. 10 plates (MIRA 16:7)
(Karelia--Rocks, Carbonate)

BORISOV, Petr Alekseyevich; SHEKHTER, D.I., red.

[Stone building materials in Karelia] Kamennye stroitel'-
nye materialy Karelii. Petrozavodsk, Karel'skoe knizhnoe
izd-vo, 1963.. 366 p. (MIRA 17:6)

BORISOV, P.A.; KUZ'MIN, V.I.

Industrial waste of petroleum refining is a valuable raw material.
Stroi. mat. 11 no.8:21-22 Ag '65. (MIRA 18:9)

BORISOV, P.A.; RABKINA, A.L.

Significance of petroleum gases in the national economy of the
U.S.S.R. Trudy Inst. nefi 3:258-270 '54. (MLPA 8:6)
(Gas, Natural)

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10, 15-57-10-14250
p 141 (USSR)

AUTHORS: Borisov, P. A., Rabkina, A. L.

TITLE: Resources of Petroleum Gases of Ural-Volga Region and Their Complex Uses for Energy and Chemistry (Resursy neftyanykh gazov Uralo-Povolzh'ya i ikh kompleksnoye energo-khimicheskoye ispol'zovaniye)

PERIODICAL: V sb.: Khim. pererabotka نفت. uglevodorodov. Moscow, AN SSSR, 1956, pp 21-27

ABSTRACT: Bibliographic entry

Card 1/1

BORISOV, P.A.; DERGUNOV, P.V.; SIROTINA, Ye.Ya.; TKACHENKO, O.V.

Economic efficiency of edge water drive in oil fields of the
Ural-Volga area. Trudy Inst.nefti 11:323-332 '58. (MIRA 11:12)

(Ural Mountain region--Oil field flooding)
(Volga Valley--Oil field flooding)

BORISOV, P.A.; RYZHENKOV, I.I.

Economic efficiency of accelerating oil recovery by hydraulic
fracturing of strata and hydrochloric acid treatment of wells,
Trudy Inst.nefti 11:333-337 '58. (MIRA 11:12)
(Oil wells--Hydraulic fracturing) (Hydrochloric acid)

BORISOV, P.A.; RABKINA, A.L.; NOREYKO, L.M.; SAZHINA, V.G.

Using casing-head gas in Saratov and Stalingrad Provinces.
Trudy Inst.nefti 11:338-344 '58. (MIRA 11:12)
(Saratov Province--Gas, Natural)
(Stalingrad Province--Gas, Natural)

BORISOV, P.A.; ANDRIANOV, V.M.

Some economic aspects in petroleum refining. Trudy Inst.nefti. 12:
363-371 '58. (MIRA 12:3)

(Petroleum--Refining)

BORISOV, P. A.

with P. V. Dergunov, Ye. Ya. Sirotina, and O. V. Tkachenko "Economic Practicability of Contour Flooding in Petroliferous Provinces of the Ural-Volga Region"

with I. I. Ryzhenkov "Economic Practicability of Intensifying Crude Oil Recovery by Hydraulic Fracturing of a Formation and Treatment of Oil Wells with Hydrochloric Acid"

with A. L. Rabkina, L. M. Noreyko and V. G. Sazhina "Utilization of Natural Gas in the Saratov and Stalingrad Regions"

Transactions of the Petroleum Institute, Acad. Sci. USSR, v. 11, Oil Field Industry, Moscow, Izd-vo AN SSSR, 1958. 346pp.

11(2); 5(3)

PHASE I BOOK EXPLOITATION

SOV/2319

Borisov, Pavel Aref'yevich, and Asya Lazarevna Rabkina

Gazy-moguchiy istochnik energii i khimicheskogo syr'ya (Gases— Powerful Source of Energy and Chemical Raw Materials) Moscow, Izd-vo AN SSSR, 1959. 80 p. (Series: Akademiya nauk SSSR. Nauchno-populyarnaya seriya) 10,000 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Redkollegiya nauchno-populyarnoy literatury,

Resp. Ed.: N. N. Nekrasov; Ed. of Publishing House: N. B. Prokof'yeva;
Tech. Ed.: T. P. Polenova.

PURPOSE: The booklet is intended for the general reader.

COVERAGE: The booklet discusses the recovery, manufacture and preparation of gases for utilization as fuel. The use of gases as raw material for the production of chemicals, particularly high polymers, is described. No personalities are mentioned. There are no references.

Card 1/3

Gases-- Powerful Source of Energy (Cont.)

SOV/2319

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Gases — Powerful Source of Energy (Cont.)

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AVAILABLE: Library of Congress (TP 350. B 67)

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10-12-59

Card 3/3

BORISOV, Pavel Aref'yevich, doktor ekonom.nauk; ZLOTNIKOVA, Lyudmila
Grigor'yevna; KALMYK, V.A., red.; PONOMAREVA, A.A., tekhn.red.

[Labor productivity in the petroleum refining industry of the
U.S.S.R.] Proizvoditel'nost' truda v neftepererabatyvaiushchei
promyshlennosti SSSR. Moskva, Gosplanizdat, 1959. 118 p.
(MIRA 12:7)

(Petroleum--Refining)

(Labor productivity)

BORISOV, P.A., doktor geologo-mineralog.nauk, nauchnyy red.; SALO, I.V.,
red.; SHCHEMELEVA, A.V., red.; SHEVCHENKO, L.V., tekhn.red.

[Mineral resources in the Karelian A.S.S.R. and their development]
Mineral'nye resursy Karel'skoi ASSR i puti ikh promyshlennogo
osvoeniia. Petrozavodsk, Gos.izd-vo Karel'skoi ASSR, 1960. 50 p.
(MIRA 13:9)

1. Akademiya nauk SSSR. Karel'skiy filial, Petrozavodsk.
(Karelia--Mines and mineral resources)

BORISOV, Pavel Aref'yevich; RYZHENKOV, Ivan Ivanovich; SIROTINA, Yelena Yakovlevna; TKACHENKO, Oksana Vladimirovna; LATUKHINA, Ye.I., vedushchiy red.; MUKHINA, E.A., tekhn.red.

[Economic efficiency of increasing the rate of petroleum production] Ekonomicheskaya effektivnost' intensifikatsii dobychi nefi. Moskva, Gos.nauchno-tekhn.izd-vo nefi. i gorno-toplivnoi lit-ry, 1960. 90 p. (MIRA 14:3)
(Oil fields--Production methods)

KISELEVA, V.A.; BORISOV, P.A.; PORYAKO, L.M.; CHAROMSKIY, A.D.

Use of sulphurous fuels for diesel engines. Trudy Inst. dvig.
no.6:126-137 '62. (MIRA 16:5)
(Diesel fuels--Analysis)

BORISOV, P. A.

LISICHKIN, S.M., ZHIGACH, K.F., BORISOV, P.A., CALPERSON, E.B., KORYACIN, I.D.,

Present day status and main development trends of the oil industry in the USSR

Report to be submitted for the Sixth World Petroleum Congress, Frankfurt,
16-26 June 63

BORISOV, T.A.; RADKOV, A.L.

Prospective sources for obtaining cyclopentadiene. Neftekhimia
4 no.4:658-662 J1-Ag '64. (MIRA 17:10)

1. Institut neftekhimicheskogo sinteza im. A.V. Topchiyeva AN SSSR.

L 36480-65 EPF(c)/EWP(j)/EWT(m) Pc-4/Pr-4 RM

ACCESSION NR: AP5010011

UR/0204/64/004/004/0658/0662

AUTHOR: Borisov, P. A.; Babkina, A. I.

TITLE: Promising sources for the production of cyclopentadiene

SOURCE: Neftekhimiya, v. 4, no. 4, 1964, 658-662

TOPIC TAGS: petroleum, pyrolysis, petroleum refining, petroleum refinery product, hydrocarbon

Abstract: The scale of production of coal-tar-chemical cyclopentadiene is unable to satisfy the increasing demand for this intermediate in organic synthesis, in particular, for the production of new antiknock compounds and pesticides. The article gives a tentative evaluation of potential resources of petroleum based cyclopentadiene, isolated from the pyrolysis products of crude oil. The high-temperature decomposition of gaseous and liquid petroleum hydrocarbon raw materials was found to be a promising source for the production of cyclopentadiene and its homologs. C₅ fractions rich in cyclopentadiene were obtained in high yields in the pyrolysis of low-octane gasolines, and especially in high-velocity thermocontact methods of petroleum refining. The possible volume of cyclopentadiene production will depend on the scale and rate of development of the pyrolysis of various

Card 1/2

L 36480-65

ACCESSION NR: AP5010011

hydrocarbon raw materials, the selection of the raw material, and the methods of refining. The authors recommend that not only gaseous, but also liquid hydrocarbon fractions, including mazuts and petroleum, be subjected to pyrolysis. Cyclopentadiene can be produced from gaseous raw materials to an extent of 0.25-0.3%, from low-octane fractions in 0.93% yield, and in the pyrolysis of petroleum in 0.85% yield. Orig. art. has 5 tables.

ASSOCIATION: Institut neftekhimicheskogo sinteza im. A. V. Topchiyeva AN SSSR
(Institute of Petrochemical Synthesis, AN SSSR)

SUBMITTED: 01Nov64

ENCL: 00

SUB CODE: FP, GC

NO REF SOV: 010

OTHER: 013

JPRS

Card 2/2

BORISOV, P.A.

Immediate results of usual and concentrated treatment of primary
syphilis. Vest. vener. no.5:32-35 Sept-Oct 1950. (CIML 20:1)

1. Lt-Col, Medical Corps.

BORISOV, P.A.

Table of components for Wassermann and sedimentation reactions. Lab.
delo 3 no.6:35-37 H-D '57. (MIRA 11:2)
(COMPLEMENT FIXATION) (BLOOD--SEDIMENTATION)

BORISOV. P.A.

Effect of certain factors on the erythrocyte sedimentation rate.
Lab.delo 4 no.3:8-12 My-Je '58 (MIRA 11:5)
(BLOOD--SEDIMENTATION)

BORISOV, P.A.

Repeated use of sugar bouillon. Lab. delo 5 no. 4:54-55 JI-Ag '59.

(MIRA 12:12)

(BACTERIOLOGY--CULTURES AND CULTURE MEDIA)

BORISOV, P.A., podpolkovnik meditsinskoy sluzhby

Test tube method of taking blood for cell counts. Voen.-med.
zhur. no. 6:86 Je '60. (MIRA 13:7)
(BLOOD--EXAMINATION)

BORISOV, P.A., podpolkovnik meditsinskoy sluzhby

Determining the sensitivity of microbes to antibiotics. Voen.-med.
zhur. no.5:67-68 My '61. (MIRA 14:8)
(BACTERIA, EFFECT OF DRUGS ON)
(ANTIBIOTICS)

I BORISOV, P.A.

Quick method for determining blood sugar concentration with the
aid of the FEK-M photoelectric colorimeter. Lab. delo 7 no.10:
29-31 0 '61. (MIRA 14:10)

(BLOOD SUGAR)

(COLORIMETERS)

10

CA

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

COMMON ELEMENTS

COMMON VARIABLES INDEX

ASTEROIDS INDEX

ASTH-SLA METALLURGICAL LITERATURE CLASSIFICATION

THE SEPARATION OF FORMIC ACID FROM ITS MIXTURES WITH ACETIC ACID. P. D. Borisov and I. F. Chistov. *Lesokhim. Prom.* 3, No. 2, 7-12 (1940); *Chem. Zentr.* 1940, II, 1049. HCO_2H and AcOH can be sepd. by boiling their mixt. 2 hrs. with alic. of the paraffin series or acetate solvents with or without a catalyst (H_2SO_4). The sepn. depends upon the different rates of esterification of the 2 acids. The completeness of the sepn. depends upon the HCO_2H content of the mixt. and the amt. and kind of alic. used. Because of its lower rate of reactivity BuOH is less satisfactory than MeOH or EtOH . A disadvantage of the use of alic. is the diln. of the AcOH by the H_2O formed. This is avoided by the use of acetate soln. The best results (84.3% removal of HCO_2H) are obtained when AcOEt is used in an amt. equal to about 5 times the HCO_2H present in the mixt. The use of the method as a continuous process is described. M. G. Moore

EXHIBIT

EXHIBIT ONE ONLY

EXHIBIT ONE ONLY

BORISOV, P.D.

USSR

Concentration of acetic acid under pilot-plant conditions by means of butyl acetate. V. P. Samarekov, P. D. Borisov, Z. M. Volodutskaya, E. V. Gorchakova, and N. I. Bykhovskiy. *Tranportirovaya Khimiya i Lesokhimiya*, Prom. 3, No. 8, 15-16 (1954). — Up to 92% of AcOH (in concn. of 75-85%) can be recovered from 8% aq. AcOH in a 23-plate bell-type column by azeotropic distn. with AcOBu. The concn. of the product is increased by increasing the temp. in the lower part of the column. H₂O removed contained 0.04-0.4% AcOH, and the concd. AcOH contained 1 to 5% AcOBu; this can be removed by distn. (cf. Othmer, C.A. 35, 5855). Elisabeth Barabash

AA-01

BOZISOV, P. D.

SUMAROKOV, V.P.; BORISOV, P.D.; VOLODUTSKAYA, Z.M.; GORCHAKOVA, Ye.V.,
SIVILLOVA, N.I.

Fortifying acetic acid by using butyl acetate under pilot plant
conditions. Der. 1 lesokhim.prom. 3 no.8:19-20 Ag '54.(MIRA 7:8)

1. TSentral'nyy nuchno-issledovatel'skiy lesokhimicheskiy institut.
(Acetic acid)

Borisov P.D.
BORISOV, P.D.

How to prevent congealing of the batch in decomposing pyroligneous acid powder. Gidroliz. i lesokhim prom. 8 no.1:30 '55.

(MIRA 8:10)

1. Nauchnyy sotrudnik TSentral'nogo nauchno-issledovatel'skogo lesokhimicheskogo instituta

(Pyroligneous acid)

BORISOV, P.D.

Purifying pickling liquors of admixtures. Gidroliz. i lesokhim. prom.
8 no.4:28 '55. (MIRA 8:9)

1. Nauchnyy sotrudnik Tsentral'nogo nauchno-issledovatel'skogo leso-
khimicheskogo instituta. (Calcium acetate)

BORISOV, P.D.

Substances that color butyl acetate. Gidroliz. i lesokhim.prom.9
no.1:29 '56. (MLRA 9:6)

1.Nauchnyy sotrudnik Tsentral'nogo nauchno-issledovatel'skogo
leso-khimicheskogo instituta.
(Butyl acetate)

Chem ✓ Balance of acids during production of acetic acid from undistilled liquor. V. P. Samarinov, Z. M. Volodutskaya, and P. D. Borisov. *Gidroliz. i Lesokhim. Prom.* 9, No. 8, 9-11(1968). The losses of acids during extrn. of alc-free liquors by EtOAc at the Amazinok Hydrolytic Plant are reported. The major losses occur at different stages (vacuum distn. of raw acids as well as batch rectification of acids are considered). They amount to 4.7-6.9%. The yield of AcOH from undistd. liquor is 69.6%. *I. Juretic*

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Central Sci. Res. Inst. Wood Chemistry

BORISOV, P.F.

Specialization of the state farm production and the system of
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1. Zamestitel' ministra proizvodstva i zagotovok sel'skokhozyayst-
vennykh produktov BSSR.

BORISOV, PAVEL GRIGOR'YEVICH

728
.B7

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v. illus., diagrs.

Lib. has: 1951
1954

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Destruction of the Crimean anchovy by dolphins and water birds. Ryb. khoz. 28
no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April ¹⁹⁵²~~1953~~, Uncl.

1. BORISOV, P. G., Prof
2. USSR (600)
4. Gray Mullet
7. Increasing the catch of Caspian mullet with trammel nets and electric light, Ryb. khoz. 29, No. 1, 1953

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

BOGDANOV, FAVEL OMLUCH'EVICH, 1009-

Guide to commercial fish of the USSR

Q1633.R8B6 1954

1. Fishes - Russia.

I. Ovsiannikov, N. S., jt. au.

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"Biological and commercial aspects of the principal commercial fish of the Baltic Sea" (Trudy VNIRO 26:266 '54). Reviewed by P.G. Borisov. Vop.ikht. no.5:192 '55. (MLRA 9:5)
(Baltic Sea--Fishes)

DRYAGIN, Pavel Amfilokhiyevich, professor; CHERFAS, B.I., professor, retsenzent; KOZHIN, N.I., professor, retsenzent; BORISOV, P.G., professor, retsenzent; KOSSOVA, O.N., redaktor; GOTLIE, E.M., tekhnicheskiiy redaktor.

[Biological principles for the restocking of fish in lakes of the U.S.S.R.] Biologicheskiiye osnovy rekonstruktsii fauny ryb v ozerakh SSSR, Moskva, Pishchepromizdat, 1956. 81 p. (MIRA 10:4)
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"Use of Artificial Light in the World Fisheries," Moscow, 1956

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"Some Aspects of Light Perception in Fish and Selective Light Sources"

report presented at the 48th Annual Meeting of the Council for Exploration
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BORISOV, Pavel Gavrilovich, prof.; RUDENSKAYA, L.V., red.; KUZNETSOV, P.A.,
red.izd-va; YEZHOVA, L.L., tekhn.red.

[From the history of scientific-ichthyological fishery research in the
seas and fresh-water bodies of the U.S.S.R.] Iz istorii nauchno-
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vodoemakh SSSR. Moskva, Gos.izd-vo "Vysshaia shkola," 1960. 196 p.
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BORISOV, P.G.; NIKOL'SKIY, G.V.

Principal stages in the development of biological fishery research
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zhur. 40 no.8:1227-1239 Ag '61. (MIRA 14:8)

1. Ichthyological Commission of the U.S.S.R. Academy of Sciences
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"Ecology of fishes" by G.V.Nikol'skii. Reviewed by P.G. Borisov.
Zool. zhur. 40 no.10:1591-1592 0 '61. (MIRA 14:9)
(Fishes) (Zoology--Ecology)
(Nikol'skii, G.V.)

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"Selected works. Vol.4: Ichthyology" by L.S. Berg. Reviewed
by P.G. Borisov. Vop. ikht. 2 no.1:203-204 '62. (MIRA 15:3)
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(BERG, L.S.)

KAZANCHEYEV, Yevgeniy Nikolayevich; BORISOV, P.G., spets. red.;
AYNZAFI, Yu.S., red.; FORMALINA, Ye.A., tekhn. red.

[Fishes of the Caspian Sea] Ryby Kaspiiskogo moria. Moskva, Rybnoe khoziaistvo, 1963. 179 p. (MIRA 17:2)

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BORISOV, Pavel Gavrilovich, prof.; OVSYANNIKOV, Nikola- Sergeyevich,
dots.; NIKOL'SKIY, G.V., prof., retsenzent; KOSSOVA, O.N.,
red.

[A manual for commercial fishes of the U.S.S.R.] Oprede-
litel' promyslovykh ryb SSSR. Izd.4., perer. i dop. Mo-
skva, Izd-vo "Pishchevaia promyshlennost'," 1964. 318 p.
(MIRA 17:8)

BORISOV, P.I.

Effect of cystine, cysteine, and ascorbic acid on the enzymatic
synthesis of thiocyanic acid. Vop.med.khim. 4:129-132 '52.

(MIRA 11:4)

1. Kafedra biokhimii i Leningradskogo meditsinskogo instituta
imeni I.P.Pavlova.

(THIOCYANIC ACID) (CYSTINE) (ASCORBIC ACID)

BORISOV, P.M.

Problem of the fundamental amelioration of climate. Izv.
Vses. geog. ob-va 94 no.4:304-318 Jl-Ag '62. (MIRA 15:9)
(Climatology)

S/169/62/000/012/073/095
D228/D307

AUTHOR: Borisov, P.H.

TITLE: Radically improving the climate of northern latitudes (project of constructing a dam in the Bering Strait)

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 12, 1962, 70, abstract 123460 (In collection: Materialy po Arktike i Antarktike, no. 1, L., 1961, 55-56)

TEXT: Investigation of bottom deposits in the Arctic Basin showed that in the Anthropogene favorable climatic changes occurred simultaneously with the increasing inflow of warm Atlantic waters into the Arctic Basin. In the Holocene (4000 - 6000 years ago) the Arctic Basin was quite free of drift ice, there was no permafrost on Siberian territory, and taiga existed where tundra is found today. In order to eliminate drift ice from the Arctic, and improve radically the climate of the USSR's northern and eastern regions, it will be necessary to increase the inflow of warm Atlantic waters

Card 1/2

Radically improving ...

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D228/0307

and, having spanned the Bering Strait, to organize transport of
water from the Arctic Ocean into the Pacific.

[Abstracter's note: Complete translation]

Card 2/2

BOZISOV, P. N.

Fungus Pathogens of Valuable Caucasian Trees, Biulleten' VII Vsesoiuznogo S'ezda
po Zashchite Rastenii v Leningrade 15-23 Noiabria 1932 Goda, No. 7, 1932, p. 14.
423.92 V96

SO - SIRA SI 90-53, 15 December 1953

BORISOV, P. N.

The Fungus Pests of the Caucasian Forest Trees, Their Economic Importance and the Means of Their Control, Trudy Tsentral'nogo Nauchno-Issledovatel'skogo Instituta Lesnogo Khoziaistva, no. 2, 1934, pp. 7-42. 99.9 154

SO - SIRA SI 90-53, 15 December 1953

Preparation of phthalic anhydride from naphthalene. N. D. ZHUKOV, P. P. MORIKOV AND S. S. STEPANOV. *Amimobrasochmaya Prom.* 2, No. 3, 7-10 (1952) - The Gibbs process was tried out in the lab. with good results. CHAR. BLANC

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
COMMON ELEMENTS																										COMMON VARIABLE MODES																									
PROCESSES AND PROPERTIES II-1 Reports of investigations carried out by N. D. Zolotarev on the catalytic aromatization of petroleum. P. P. Borisov and N. I. Shulkin. <i>Naftyanoe Khozyaistvo</i> 20, No. 3, 42-3(1934).—A review covering Z.'s 60 years' research activities, including some of his unpublished works. A. A. Bochtlingk																																																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																			
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B-T-2

Influence of catalysts in vapour-phase cracking.
K. P. Bessonov and M. V. GAVRDOVSKAYA (Nef. Khim., 1964, 24, No. 10, 37-40).—Experiments at 500° with various fractions, and with and without the use of catalysts (ZnO , $\text{Ni-Al}_2\text{O}_3$, activated C, Ni_2O_3 , Al_2O_3 , fused borax, glass chips, MnO_2 , TiO_2 , UO_2 , and ThO_2) are described. Data are tabulated. (Un. Ann. (e))

ASAC-SLA METALLURGICAL LITERATURE CLASSIFICATION

Technical decomposition of hydrocarbons.
P. P. SHENNIKOV, E. M. SCHACHARANOVA, and H. I. MARSHALL (J. Gen. Chem. Russ., 1934, 4, 1285—1286).
—Heptane, cyclo-pentane, heptane, and hexene, decane, dodecaphthalene, and $C_{10}H_8$ give rise to H_2 and

The cracking of kerosene, spindle, automobile and cylinder oils in the presence of aluminum chloride. P. P. Bogdanov, M. V. Gaverdovskaya and P. F. Epifanskii. *Neftevoos Khozyaistvo* 27, No. 1, 74-81 (1955). - These products were cracked with 10% $AlCl_3$ in glass lab. app. The mixt. was heated to 150°; the heating was discontinued and then repeated. A total of 75% of cracked gasoline was made. $AlCl_3$ reacts mainly with the naphthene hydrocarbons, causing the splitting of side chains, which then form paraffin hydrocarbons, and also a partial dehydrogenation, causing the formation of aromatics. This reaction is accompanied by a deep cracking of the rings to paraffins and finally to asphaltene and carbonates. A. A. Bohtlingk

COMMON ELEMENTS		COMMON VARIABLE NOTES	
PROCESSES AND PROPERTIES INDEX The chemical changes of waste lubricating oils and the conditions of their regeneration. P. F. Bogachov and M. S. Bventova. <i>Bull. acad. sci. U. R. S. S., Classe sci. math. nat., Sér. chim.</i> 1938, 1073-95 (in English, 1085-9). —An investigation was made of the chem. changes occurring in motor oils and of the conditions of their regeneration. Only about 8% of the main hydrocarbon portion of the oil was found to undergo changes during use. On account of its diln. with the fuel, the η of the oil decreased, admixts. increased, and the flash point decreased. In the new and used oils, resp., the contents of aromatics were 35.8 and 32.3, naphthenes 57.6 and 50.6, and paraffins 0.89 and 1.34%. Gums, asphaltenes, and oxidation products increased by 3%. Part of the consumed naphthenes are dehydrogenated and part are oxidized into acids and other oxidation products. Polycyclic aromatics are cracked with the rupture of side chains from which paraffins having a tendency to oxidize are formed. The cracked hydrocarbons polymerize into resins, asphaltene, carbonates and carboids. Regeneration of waste lubricating oils was investigated with various adsorbents such as silica gel, aluminum oxide, Zikeevo clay and the American Refmolite compds. Silica gel gave fairly satisfactory results when the regeneration was conducted in two stages. Unsatisfactory results were obtained with aluminum oxide, with Zikeevo clay, with Zikeevo clay contg. CaO, American compds., and with Zikeevo clay contg. CaO, Al(OH)₃, and activated C. Best results, almost as good as with the American compds., were obtained by the use of Zikeevo clay which had been activated with 6% by wt. of H₂PO₄. H. Z. Kamich		22	
ASAC-SLA DETALLURGICAL LITERATURE:		FROM SOURCE	
SECONDARY		SECONDARY ONLY ONE	
SECONDARY		SECONDARY ONLY ONE	

21

Production of gasoline from paraffin residues from syn-
thin in the presence of aluminum chloride. P. P. Borisov,
and M. S. Bventova. *Neftekhim. Khim.* 1939, No. 12, 43-5;
Akim. Referat. Zhur. 1940, No. 8, 110.—The liquid frac-
tion (b. 240-300°) of synthin residue and the solid frac-
tion, requires 20% of $AlCl_3$ for cracking; the solid frac-
tion, above 300°, is cracked with only 10% of $AlCl_3$.
Max. yields of gasoline (up to 48%) are obtained on crack-
ing with 15% $AlCl_3$. The gasoline thus obtained, b. 22-
150°, consists nearly exclusively of isoparaffins. The oc-
tane no. of the 22-50° fraction contg. pentanes and
hexanes is 88, of the 50-100° fraction 73, and of the whole
(22-150°) 79. W. R. Henn

ASB-3LA DETAILUPONAL LITERATURE CLASSIFICATION

COMMON ELEMENTS		PROCESSES AND PROPERTIES INDEX		COMMON VARIABLES INDEX	
743. INCREASING THE OCTANE NUMBER OF GROZNY GASOLINE. Borisov, P. P., Eventova, M. S., Tarasova, E. M. and Khromov, S. I. (Neft-yano Khozyaistvo, 1946, <u>24</u>, No.1, 60-2; hem. Abstr., 1946, <u>40</u>, 6792). The increase in octane no. of an octane fraction of Grozny gasoline after isomerization in the presence of clay activated with metal oxides compares unfavourably with that of pure octane treated under similar conditions, being 4 points against 25 points. This poor response is apparently due to the inhibiting effect of naphthenes present in the above fraction. Tests on 4 mixtures of octane with methyl-cyclohexane, ethylcyclopentane, toluene, and 2,2,3-trimethylpentane, respectively, give proof that naphthenes inhibit isomerisation of normal paraffins in the presence of clay while aromatic compounds do not and even are beneficial. A similar effect of the naphthenes is observed also in the treatment of other fractions of Grozny gasoline with $AlCl_3$ and HCl, as well as with Zikeev clay. Therefore naphthenes must be removed at the start. Another means of increasing the octane No. of Grozny gasoline is by aromatization of					
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION					
MATERIALS INDEX		PROCESS INDEX		PROPERTY INDEX	
SUBJECT INDEX		SUBJECT INDEX		SUBJECT INDEX	
SUBJECT INDEX		SUBJECT INDEX		SUBJECT INDEX	

the paraffins, by use of a modified CrO_3 - Al_2O_3 catalyst originally prepared by Grosse, et al. (C. A. 34, 4384⁵). This treatment raises the octane number to 95 with 3 cc. PbEt_4 per kg., and octane is converted chiefly to benzene, toluene, and some xylene. The catalyst is easily regenerated by blowing with dry air.

BORISOV, P. P.; ZAL'TSMAN, B. I.;
ROMANOVA, Z. V.

Lubrication and Lubricants

Effect of resins and asphalts on oxidation of lubricating oils. Vest. Mosk. un.
7 no. 5, 1952.

Monthly List of Russian Accessions. Library of Congress , November 1952, Unclassified

BORISOV, P.P.

B 05150V

USSR

Oxidation of hydrocarbons with oxygen. Oxidation of isopropylcyclohexane. M. S. Eventova, P. P. Borisov, and L. V. Osipova. *Vestnik Moskov. Univ.* 9, No. 6, Ser. Fiz.-Mat. i Estestven. Nauk No. 4, 91-8(1954).—Hydrogenation of iso-PrPh over Raney Ni at 160° gave isopropylcyclohexane, b_p 153.3-4°, n_D^{20} 1.4410, d_4^{20} 0.8000. This was oxidized at atm. pressure with O (for app. cf. B. and Zal'tsman. *Uchenye Zapiski Moskov. Gosudarst. Univ.* 151, 85(1951)) 8 hrs. at 140° with circulation of O through the substrate at 0.1/hr.; under these conditions 12.4% conversion occurred. The reaction products included: traces of paraffin gases, CO₂, gaseous aldehyde, AcOH, (CH₃)₂(CO₂H), Me₂CO, cyclohexanone, cyclohexanol, Me₂(C₆H₁₁)COH, and Me₂C(OH)CO(CH₂)₂CO₂H, b, 141° (semicarbazone, m. 153-4°). Similar oxidation of cyclohexanol gave 12.1% conversion and yielded cyclohexanone and (CH₃)₂(CO₂H). Cyclohexanone gave but 8% conversion, yielding (CH₃)₂(CO₂H). The results of the oxidation expts. are explainable by formation of hydroperoxides at the tertiary C atom and at the CMe₂(OH) group, followed by decompn. of the hydroperoxides to the products listed above. The results indicate that the tertiary C atom in the side chain is attacked first. The amt. of O taken up by isopropylcyclohexane rises with time since the oxidation process is catalyzed by the resulting hydroperoxide.

G. M. Kosolapoff

(2)
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A 24

Borisov, P.P.

Oxidation of aromatic hydrocarbons with oxygen. *M. S. Syentova, P. P. Borisov, M. V. Chistyakova, and E. A. Mironova. Vestnik Mosk. Univ. 10, No. 8, Ser. Fiz-Mat. Estestven. Nauk No. 5, 77-81 (1965).* *Ph(CH₂)₃Ph (I) and Ph(CH₂)₄Ph (II) were exposed to O₂ for 3 hrs. at 175° at the rate of 8 l./hr. Among the products of oxidation of I (total 23%) were CO₂, BzOH, AcOH, and small amts. of PhOH and glutaric acid. The oxidation products of II (total 42.5%) included H₂O, CO, CO₂, neutral tars, and traces of PhOH and adipic acid. It must be assumed that the reaction proceeds via the cleavage of the intermediate α,α' -dihydroperoxide at the C atoms in α,α' -positions to the Ph nuclei. The total oxidation products of (PhCH₂)₃CH at 175°, 3 and 6 hrs., and at 205°, 3 hrs., resp., were 7, 19, and 20% and of (PhCH₂CH₂)₃CH (III) 34, 68, and 64%, resp.; the absence of even traces of PhOH at the lower temp. indicates the firmness of the bond; increasing the temp. or duration did not change the direction of the reaction; only a small amt. of PhOH was formed after 6 hrs., none formed after 3 hrs. at 205°. There were more tars in the oxidation of III.*

B. Gutoff

PM

7
The oxidation of aromatic hydrocarbons with oxygen.
The oxidation of 1,1-diphenylpropane and 1,1-diphenylcyclo-
pane. M. S. Evtrova, E. I. Borisov, M. V. Chistyakova,
and T. M. Larina. *Vestnik Mosk. Univ.* 12 Ser. *Mat. Mekh. Khim., Fiz. Khim.* No. 2, 209-13 (1957).—O
passed (6 l./hr.) through 30 g. Ph_2CHMe (prepd. from PhMgBr) at 175° for 3 hrs. gave (besides O , CO , CO_2 , and H_2)
 Ph_2MeCOOH which decompd. to Ph_2CO , then to BzOH
and PhOH ; Ph_2CHMe was 28.9% converted. Ph_2CHMe
after 5 min. oxidation gave 57.5% Ph_2EtCOOH , 25.0%
 Ph_2CO , no BzOH , PhOH or resin; after 3 hrs., traces,
34.3, 6.9, 6.1 and 25.2% of these for a 30.6% conversion
(for Ph_2CH_3 , 11.8%). The higher homologs are more
prone to oxidation by O , which goes via peroxide formation
at lower temps. also; the α -carbon atom is attacked first.

Malcolm Anderson

4E 4j
4E 8d
4E 2c (j)
2 may

150K/50V/15

Distr: 4E1j/4E2c4j/4E3d
 Oxidation of hydrocarbons by oxygen. Oxidation of
 dicyclohexylmethane. A. B. Kuchumov, P. P. Halesy,
and A. I. Kuznetsov, Vestnik Mosk. Univ. 12, Ser. Mat.,
Mekh., Astron., Fiz., Khim. No. 3, 175-80 (1957).—Oxida-
tion of dicyclohexylmethane at 175° 3 hrs. produced 7-
cyclohexyl-5-oxocyclohexanecarboxylic, cyclohexylcarboxylic, adipic, glu-
taric, oxalic, and acetic acids and CO₂. V. S. Mithajlov

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Borisov, P.P.

Distr: 4E4j/4E3a/4E2c(j)

✓ Oxidation of aromatic hydrocarbons by oxygen. Oxidation of *m*-diisopropylbenzenes / M. S. Evtanov, P. P. Borisov, and G. N. Nikul'skaya. *Tekhn. Mosk. Univ. Izv. Ser. Khim., Mekh., Astron., Fiz., Khim.* No. 3, 181-3 (1957); *cf. C.A.* 50, 11256c; 52, 316i. The affinity toward Oxidation of diisopropylbenzenes (I) is ortho < meta < para. When I are oxidized by O the tertiary C of the Pr group is attacked giving *m*-diacetylbenzene, *m*-acetylbenzoic acid, isophthalic acid, and resorcinol. V. S. Milajlov

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Borisov, P. P.

Distr: 4E4j/4E3d/4E2a(j)

Oxidation of aromatic hydrocarbons by oxygen. Oxidation of 1,1-diphenylbutane, 1,1-diphenylpentane, and 1,1-diphenylhexane. E. S. Kvantova, P. P. Borisov, and M. V. Chistyakova. *Vestnik Moskov. Univ.* 12, Ser. Mat. Mekh., *Asthen., Fiz., Khim.* No. 3, 185-9 (1957); cf. C.A. 50, 11296e, preceding abstr. In the homologous series diphenylmethane to 1,1-diphenylhexane, the affinity toward oxidation gradually increases whether the no. of C atoms in the paraffin part is odd or even. These hydrocarbons with the exception of diphenylhexane are less stable to oxidation than their symmetric isomer. O attacks the tertiary C atom forming Ph₂CO, PhOH, BzOH, and some nolic tar substances. V. S. Mikhailov //

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dim

BORISOV P.P.

FILE : BOB INFORMATION

Abdondiya mark 8802. Institut khimicheskoy fiziki

Материалы изложены в штифтовой форме; сборник статей (oxidation of hydrocarbons in the liquid phase); Collection of Articles; Moscow, Izdat. AN SSSR, 1959. 394 p. Errata slip inserted. 2,200 copies printed.

Ed.: V. M. Emanuel', Corresponding Member, Academy of Sciences
Publishing House: E. M. Izumayev; Tech. Ed.: I. P. Kuz'min.

PURPOSE: This collection of articles is intended for chemists interested in hydrocarbon oxidation reactions, particularly for those specializing in petroleum fuels.

NOTES: This collection of 35 articles represents the results of investigations over a period of several years on problems of biological oxidation. The authors present their own theoretical and experimental data, and also draw on current literature. No personalities are mentioned. References accompany most of the articles.

Oruyev, A.A., and Z.A. Sublina. [Scientific Research Institute of Combustibles and Lubricating Materials]. The Role of Metals in the Liquid-Phase Oxidation of Hydrocarbon Fuels

The authors discuss the necessity of preventing the acceleration of fuel oxidation due to contact with various metals during transportation, pumping and storage.

Looney, B.L. (Scientific Research Institute of Combustibles and Lubricating Materials). Passivating Metal Catalysts During the Oxidation of Crude Motor Oil With Catalysts

Adding 3% "ZalTRA-330" and 1% tributylphosphite inhibits the thermal oxidation of fuel in contact with metal by passivating the latter. Fuel with 1% dialkylidithiophosphate added has lower oxidation resistance than fuel without the additive.

Andriev, P. P., M. S. Ivanova, and Zh. O. Esenvalde. [Moscow State University] Izv. M. V. Lomonosov. Effect of Temperature and Oxygen on the Oxidation of Bulk Oil and Thin Oil Layers
A thin layer (10-15 μ) of select petroleum underwent

intensive thermal cracking when oxidized at 250° by atmospheric oxygen. Oxidation is negligible in bulk amounts of the same oil and thickening starts when ambalenes and cross are formed.

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